

Patent Claims

1. A spectrally broadband light source of high optical power for fiber optic applications,
5 **characterized by**

- a monolithic linear array, arranged on a substrate, in particular a wafer or chip, of adjacent surface-emitting LEDs (3); and
- 10 - a microoptics array (4), arranged upstream of the monolithic LED linear array on the emission side at a prescribed spacing, having optical functions individually assigned to the LED elements in such a way that for the purpose of optimizing the optical power that can be launched into an optical fiber, the
15 emission of the individual LEDs is focused onto an onto an optical unit (5) arranged upstream of the launch point of the fiber.

2. A spectrally broadband light source as claimed in
20 claim 1, **characterized in that** the optical unit (5) is designed as a collecting optics, in particular as a spherical lens, arranged at an end of the fiber (6) into which light is radiated.